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Fig. 7A

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H		gagtcctaacacggaccaaggagtttaac
M	-60	tgaaaagatagaataaatggcctcgtgc
H		M E W P A R L C G
		ATGGAGTGGCCGGCGCGGCTCTGCGGGC
		* * * *
M	1	ATGGCGCGGCCAGCGCTGCTGGGCGAGC
M	1	M A R P A L L G E
H		G G G G A P T E T
H		GGGGGCGGGGGCGCGCCTACGGAAACTC
		* * * *
M	61	GGCCAAGTTGCCGCGGCCACAGAAGTTC
M	21	G Q V A A A T E V
H		E N L C T V I W T
H		GAAAACCTCTGCACAGTAATATGGACAT
		* * * * *
M	121	GAAAATCTCTGCACGATAATATGGACGT
M	41	E N L C T I I W T
H		S L W Y F S H F G
H		AGTCTATGGTATTTTAGTCATTTTGGCG
		* * * * *
M	181	ACTCTCAGATATTTTAGTCACTTTGATG
M	61	T L R Y F S H F D

Fig. 7B

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acgtgcggccgggttccgagggcgagaggctgc

.....
cgaattcggcacgagccgagggcgagggcctgc

L W A L L L C A G G G G
TGTGGGCGCTGCTGCTCTGCGCCGGCGGGGGGC
* * * *

TGTTGGTGCTGCTACTGTGGACCGCCACCGTG - - -
L L V L L L W T A T V -

Q P P V T N L S V S V
AGCCACCTGTGACAAATTTGAGTGTCTCTGTT
* * * * * * * * * *
AGCCACCTGTGACGAATTTGAGCGTCTCTGTC
Q P P V T N L S V S V

W N P P E G A S S N C
GGAATCCACCCGAGGGAGCCAGCTCAAATTGT
* * * * * * * * * *
GGAGTCCTCCTGAAGGAGCCAGTCCAAATTGC
W S P P E G A S P N C

D K Q D K K I A P E T
ACAAACAAGATAAGAAAATAGCTCCGGAAACT
* * * * * * * * * *
ACCAACAGGATAAGAAAATTGCTCCAGAAACT
D Q Q D K K I A P E T

Fig. 7C

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H		R R S I E V P L N
H		CGTCGTTCAATAGAAGTACCCCTGAATG
		* * * *
M	241	CATCGTAAAGAGGAATTACCCCTGGATG
M	81	H R K E E L P L D
H		S T N E S E K P S
H		AGCACCAATGAGAGTGAGAAGCCTAGCA
		* * * * *
M	301	AGTGCCAATGAAAGTGAGAAGCCTAGCC
M	101	S A N E S E K P S
H		G D P E S A V T E
H		GGTGATCCTGAGTCTGCTGTGACTGAAC
		* * * * *
M	361	GGTGATCCTGAGTCCGCTGTGACTGAGC
M	121	G D P E S A V T E
H		K C S W L P G R N
H		AAGTGTTCTTGGCTCCCTGGAAGGAATA
		* * * * *
M	421	AAGTGTTCTTGGCTCCCTGGAAGGAATA
M	141	K C S W L P G R N
H		W H R S L E K I H
H		TGGCACAGAAGCCTGGAAAAAATTCATC

Fig. 7D

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```
E R I C L Q V G S Q C
AGAGGATTTGTCTGCAAGTGGGGTCCCAGTGT
* * * * *
AGAAAATCTGTCTGCAGGTGGGCTCTCAGTGT
E K I C L Q V G S Q C

I L V E K C I S P P E
TTTTGGTTGAAAAATGCATCTCACCCCCAGAA
* * * * *
CTTTGGTGAAAAAGTGCATCTCACCCCCTGAA
P L V K K C I S P P E

L Q C I W H N L S Y M
TTCAATGCATTTGGCACAACCTGAGCTACATG
* * * * *
TCAAGTGCATTTGGCATAACCTGAGCTATATG
L K C I W H N L S Y M

T S P D T N Y T L Y Y
CCAGTCCCGACACTAACTATACTCTCTACTAT
* * * * *
CAAGCCCTGACACACACTATACTCTGTACTAT
T S P D T H Y T L Y Y

Q C E N I F R E G Q Y
AATGTGAAAACATCTTTAGAGAAGGCCAATAC
```

Fig. 7E

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			*		*	*	*	*																						
M	481		T	G	G	T	A	C	A	G	C	C	T	G	G	A	G	A	A	A	G	T	C	G	T	C				
M	161		W	Y	S	S	L	E	K	S	R																			
H			F	G	C	S	F	D	L	T	K																			
H			T	T	G	G	T	T	G	T	T	C	C	T	T	T	G	A	T	C	T	G	A	C	C	A	A	A	G	
							*	*	*						*	*	*													
M	541		A	T	T	G	C	T	T	G	T	T	C	C	T	T	T	A	A	A	T	T	G	A	C	T	A	A	A	G
M	181		I	A	C	S	F	K	L	T	K																			
H			Q	I	M	V	K	D	N	A	G																			
H			C	A	A	T	A	A	T	G	G	T	C	A	A	G	G	A	T	A	A	T	G	C	A	G	G	A	A	
			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
M	598		C	A	A	T	A	A	T	G	G	T	C	A	A	G	G	A	T	A	A	T	G	C	T	G	G	G	A	
M	200		Q	I	M	V	K	D	N	A	G																			
H			T	S	R	V	K	P	D	P	P																			
H			A	C	T	T	C	C	C	G	T	G	A	A	C	C	T	G	A	T	C	C	T	C	C	A	C			
			*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
M	658		A	C	T	T	C	C	T	A	T	G	T	G	A	A	C	C	T	G	A	T	C	C	T	C	C	A	C	
M	220		T	S	Y	V	K	P	D	P	P																			
H			L	Y	V	Q	W	E	N	P	Q																			
H			C	T	A	T	A	T	G	T	G	C	A	A	T	G	G	G	A	A	T	C	C	A	C	A	G	A		
			*		*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
M	718		T	T	A	T	A	G	T	G	C	A	G	T	G	G	A	A	G	A	A	T	C	C	A	C	A	A	A	
M	240		L	L	V	Q	W	K	N	P	Q																			

Fig. 7F

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```
* * * * * * * * *
AATGTGAAAACATCTATAGAGAAGGTCAACAC
Q C E N I Y R E G Q H

V K D S S F E Q H S V
TGAAGGATTCCAGTTTGAACAACACAGTGTC
* * * * *
TGGAACCT - - - AGTTTGAACATCAGAACG TT
V E P - S F E H Q N V

K I K P S F N I V P L
AAATTAAACCATCCTTCAATATAGTGCCTTTA
* * * * *
AAATTAGGCCATCCTGCAAAATAGTGTCTTTA
K I R P S C K I V S L

H I K N L S F H N D D
ATATTAAAAACCTCTCCTTCCACAATGATGAC
* * * * *
ATATTAAACATCTTCTCCTCAAAAATGGTGCC
H I K H L L L K N G A

N F I S R C L F Y E V
ATTTTATTAGCAGATGCCTATTTTATGAAGTA
* * * * *
ATTTTAGAAGCAGATGCTTAACCTTATGAAGTG
N F R S R C L T Y E V
```

Fig. 7G

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H		E	V	N	N	S	Q	T	E	T
H		G	A	A	G	T	C	A	A	T
		*	*	*	*		*	*		
M	778	G	A	G	T	C	A	A	T	A
M	260	E	V	N	N	T	Q	T	D	R
H		E	N	P	E	F	E	R	N	V
H		G	A	A	T	C	C	A	G	A
		*		*			*	*		
M	838	C	A	G	A	T	T	C	C	G
M	280	Q	N	S	E	S	D	R	N	M
H		L	P	D	T	L	N	T	V	R
H		C	T	T	C	T	G	A	T	T
		*		*			*	*	*	
M	898	C	T	T	G	C	C	G	A	C
M	300	L	A	D	A	V	Y	T	V	R
H		D	D	K	L	W	S	N	W	S
H		G	A	T	G	A	C	A	A	T
		*		*	*	*	*		*	*
M	958	G	A	C	A	C	A	A	T	G
M	320	D	N	K	L	W	S	D	W	S
H		T	L	Y	I	T	M	L	L	I
H		A	C	A	T	C	T	A	C	A

Fig. 7H

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H N V F Y V Q E A K C
ATAATGTTTTCTACGTCCAAGAGGCTAAATGT
* * * * *
ATAATATTTTAGAGGTTGAAGAGGACAAATGC
H N I L E V E E D K C

E N T S C F M V P G V
AGAATACATCTTGTTTCATGGTCCCTGGTGTT
* * * * *
AGGGTACAAGTTGTTTCCAACCTCCCTGGTGTT
E G T S C F Q L P G V

I R V K T N K L C Y E
TAAGAGTCAAAACAAATAAGTTATGCTATGAG
* * * * *
TAAGAGTCAAAACAAACAAGTTATGCTTTGAT
V R V K T N K L C F D

Q E M S I G K K R N S
AAGAAATGAGTATAGGTAAGAAGCGCAATTCC
* * * * *
AAGCACAGAGTATAGGTAAGGAGCAAAACTCC
E A Q S I G K E Q N S

V P V I V A G A I I V
TTCCAGTCATCGTCGCAGGTGCAATCATAGTA

Fig. 7I

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		* * * * *
M 1018		ACCTTCTACACCACCATGTTACTCACCA
M 340		T F Y T T M L L T
H		L L L Y L K R L K
H		CTCCTGCTTTACCTAAAAAGGCTCAAGA
		* * * * *
M 1078		CTCCTT TTTTACCTGAAAAGGCTTAAGA
M 360		L L F Y L K R L K
H		K I F K E M F G D
H		AAGATTTTAAAGAAATGTTTGGAGACC
		* * * * *
M 1138		AAGATTTTAAAGAAATGTTTGGAGACC
M 380		K I F K E M F G D
H		D I Y E K Q T K E
H		GACATCTATGAGAAGCAAACCAAGGAGG
		* * * * *
M 1198		GACATCTATGAGAACAATCCAAAGAAG
M 400		D I Y E K Q S K E
H		K K A S Q *
H		AAGAAAGCCTCTCAGTGATgggagataat
		* * *
M 1258		AAGAAAGCAGCTCCTTGATgggggagaag
M 420		K K A A P *

Fig. 7J

```
      *   *       *   *       *       *
TTCCAGTCTTTGTCGCGAGTGGCAGTCATAATC
I   P   V   F   V   A   V   A   V   I   I

I   I   I   F   P   P   I   P   D   P   G
TTATTATATTCCCTCCAATTCCTGATCCTGGC
*   *   *   *   *   *   *   *   *   *
TCATTATATTTCCCTCCAATTCCTGATCCTGGC
I   I   I   F   P   P   I   P   D   P   G

Q   N   D   D   T   L   H   W   K   K   Y
AGAATGATGATACTCTGCACTGGAAGAAGTAC
*   *   *   *   *   *   *   *   *   *
AGAATGATGATACCCTGCACTGGAAGAAGTAT
Q   N   D   D   T   L   H   W   K   K   Y

E   T   D   S   V   V   L   I   E   N   L
AAACCGACTCTGTAGTGCTGATAGAAAACCTG
*   *   *   *   *   *   *   *   *   *
AAACGGATTCTGTAGTGCTGATAGAAAACCTG
E   T   D   S   V   V   L   I   E   N   L

ttatttttaccttcactgtgaccttgagaaga
tgattttctttcttgccttcaatgtgaccctgt
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Fig. 7K